



## Technical Data Sheet

### ACS Material 3D Freestanding Graphene Foam

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## 1. Preparation Method

- 1) Preparation of 3D Graphene on Nickel Foam
- 2) Remove Nickel

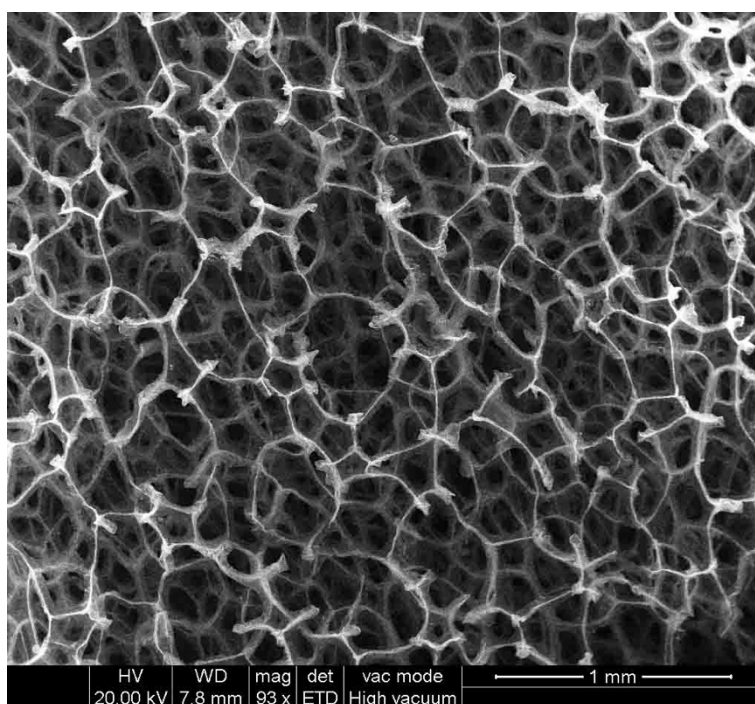
## 2. Characterizations

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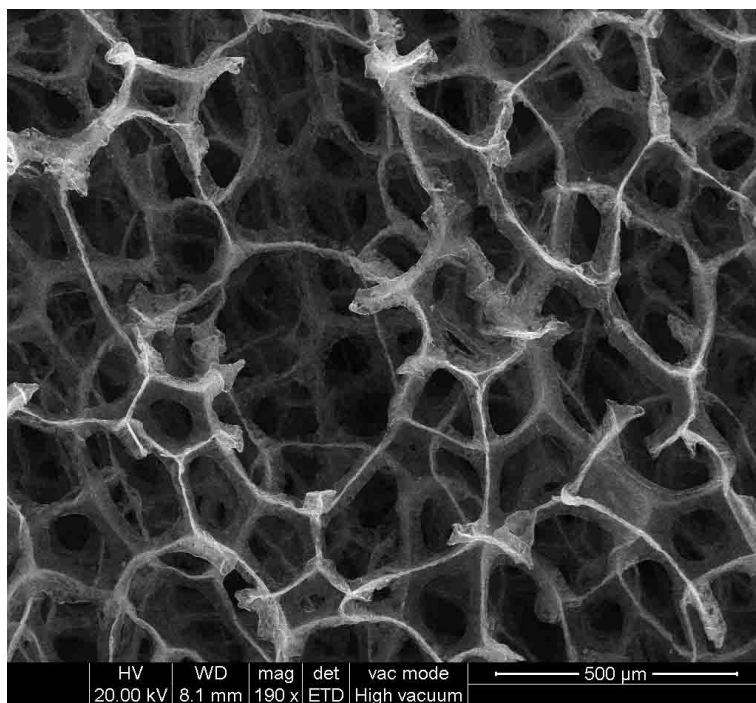
**Graphene Thickness(nm):** ~ 30-40

**Total Thickness (mm):** ~ 0.5

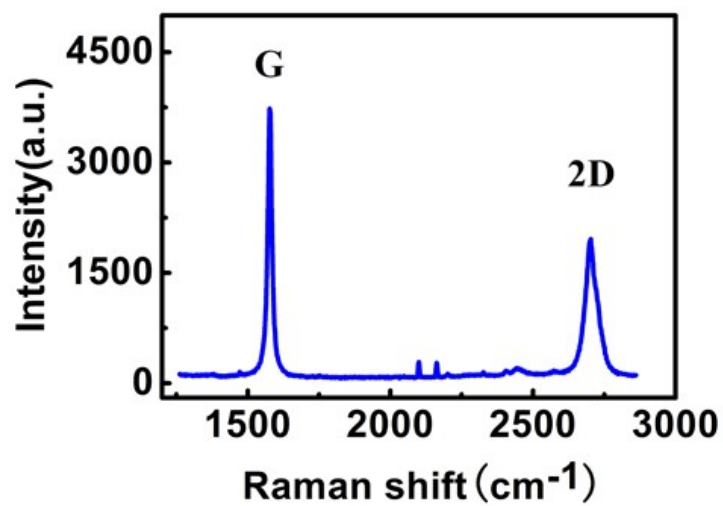
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Typical SEM Image of ACS Material 3D Freestanding Graphene Foam (1)



Typical SEM Image of ACS Material 3D Freestanding Graphene Foam (2)



Typical Raman Spectrum of ACS Material 3D Freestanding Graphene Foam

### 3. Application Fields

- 1) Analytical chemistry applications
- 2) Environmental applications
- 3) Medical applications
- 4) Fuel storage
- 5) Supercapacitors
- 6) Gas purification
- 7) Chemical purification
- 8) Distilled alcoholic beverage purification
- 9) Mercury scrubbing

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